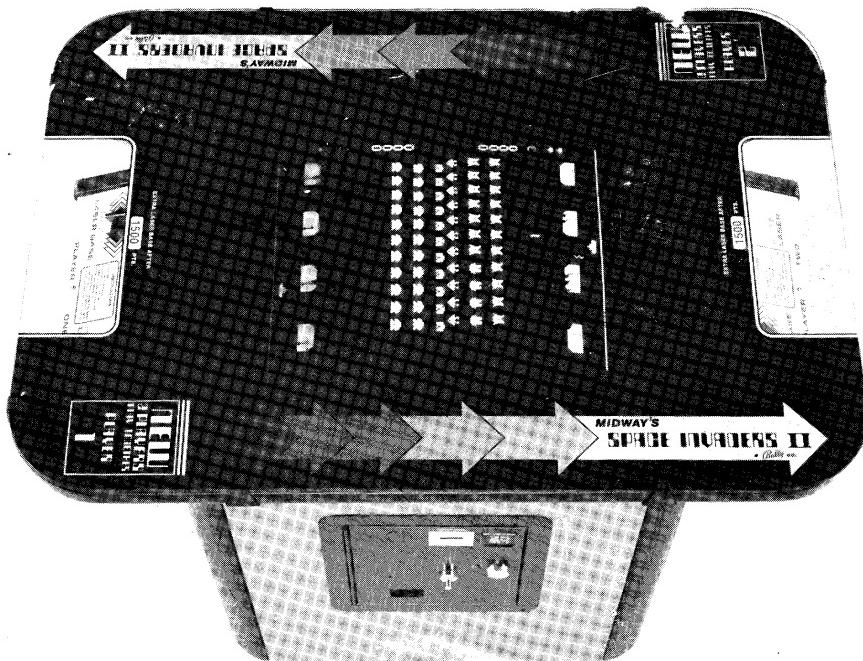


GAME NO. 851
MARCH, 1980

MIDWAY'S SPACE INVADERS II 'COCKTAIL' PARTS AND OPERATING MANUAL



MIDWAY MFG. CO.

A BALLY COMPANY

10750 WEST GRAND AVENUE

FRANKLIN PARK, ILLINOIS 60131

U.S.A.

PHONE: (312) 451-1360 CABLE ADDRESS: MIDCO TELEX NO.: 72-1596

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WARNING

**THIS GAME MUST BE GROUNDED. FAILURE TO DO
SO MAY RESULT IN DESTRUCTION TO ELECTRONIC
COMPONENTS.**

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FOR PERMISSION REQUESTS, WRITE: MIDWAY MFG. CO., 10750 W. GRAND AVE., FRANKLIN PARK, IL 60131

GENERAL INSTRUCTIONS FOR SPACE INVADER II COCKTAIL TABLE

INSTALLATION

1. Remove shipping cleats located on bottom of cabinet.
2. Install four (4) provided leg levelers to bottom of cabinet and level cabinet.
3. The power is controlled by a switch located on the bottom of the cabinet. Plug into A.C. only, 115 volts, 60 cycles. In low line areas (105 volts or less), a boost in the output voltage of the transformer may be obtained by removing the wire from the 115 volt tap of the transformer and rewiring it to the 105 volt position.

VOLTAGE CONTROL POTS

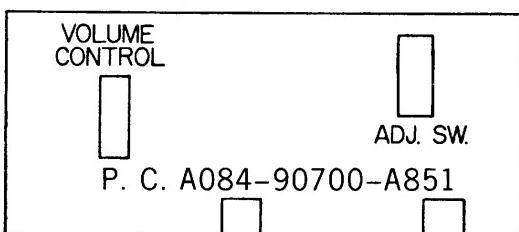
Located on Power Supply Board (P.C. A082-90400-H000) and are preset at the factory. These pots should not be tampered with unless the Distributor Service Department is contacted.

MASTER VOLUME CONTROL

Located on Game Logic Board (P.C. A084-90700-A851) controls the volume of all sounds and may be varied as desired by rotating pot.

ADJUSTMENT SWITCHES

Located on Game Logic Board (P.C. A084-90700-A851) and may be adjusted as indicated on separate instruction sheet in cabinet.



LINE VOLTAGE SAFETY SWITCH

A line voltage safety switch has been provided for your protection. It is located in the cabinet on the left side of the coin door. When the coin door is opened the circuit to the line voltage is interrupted. To restore power (when servicing), pull switch fully out.

TO SERVICE GAME LOGIC BOARD

The game logic board assembly is easily serviced by removing rear access door panel.

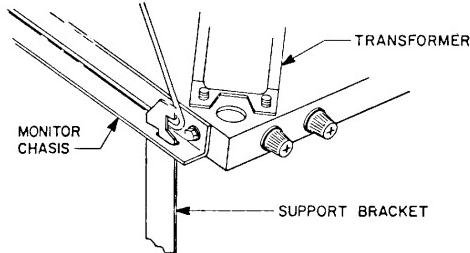
HIGH SCORE AND NAME DISPLAY PROGRAM

1. Place switch #2 located on Game Logic Board (P.C. A084-90700-A851) in "OFF" position.
2. Close coin switch to display one credit on screen.
3. Depress One Player Select Button. "Preset Mode" will be displayed on screen.
4. Depress One Player Select Button again to increase score until previous Hi Score is beaten.
5. Depress Fire Button to start game. When all lasar bases have been destroyed, the alphabet will be displayed on the screen. A new name may now be programmed on the screen as indicated by instructions on Control Panel.
6. Place switch #2 located on Game Logic Board (P.C. A084-90700-A851) in "ON" position to reestablish game mode.

NOTE: To reset Hi-Score (to 5,000) and Name Display, depress "ON-OFF" switch.

TO SERVICE MONITOR

1. Open coin box door.
2. Release two clamps located above coin door opening. **CAUTION: NEVER RELEASE CLAMPS UNLESS THE LINE VOLTAGE IS INTERRUPTED VIA SAFETY SWITCH.**
3. Rotate top panel on its hinges to an upright position.
4. Place Monitor Support Bracket (located on left cabinet wall) in provided hole in monitor chassis.
5. To restore power to monitor, pull safety switch fully out.



M051-00851-A015

SERVICE BULLETIN

GAME: SPACE INVADER II

SUBJECT: RAMS, PROMS AND ROMS

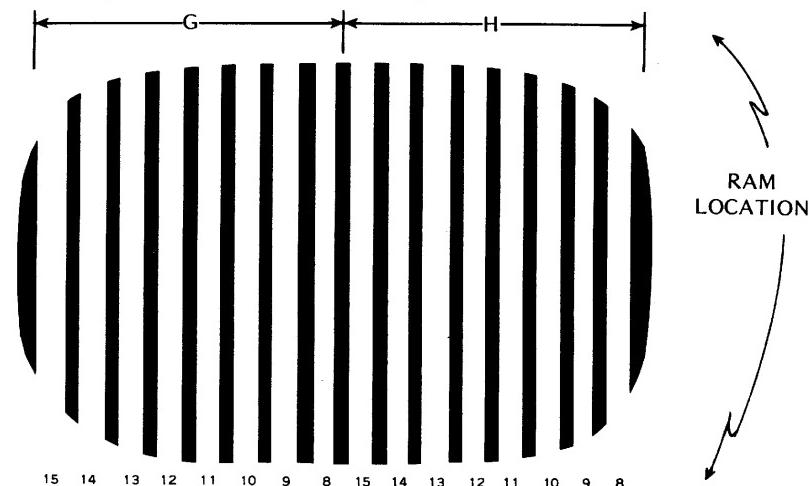
The Space Invader II game microprocessor system has been programmed to detect a defective Ram, Prom and/or Rom. To utilize the test, proceed as follows:

- 1) Set switch #8 to on position. (A084-90700-A851) Game Board.
- 2) Activate coin door tilt switch.
- 3) The Ram test sequence will scan and vertical lines will appear.
- 4) When all Rams are good, the scan will be continuous and then stop.
- 5) When a Ram is defective, dark vertical columns will appear (refer to Figure #1 for method of locating a bad Ram).
- 6) When Ram test is completed and all Rams are good, the T.V. screen will blank out to indicate a bad Prom or Rom by displaying letters locating it.
- 7) When Proms and Roms are good, the Ram scan will be continuous and then stop.
- 8) Return switch #8 to off position (A084-90700-A851)
- 9) The Ram scan will stop and game will return to normal when the tilt switch is activated.

NOTE: Rams must be good before Prom and Rom test can be made.

SUBJECT:

Figure One – Method of Locating a Bad RAM



- 1) When one or more columns are missing or altered, this would indicate a RAM problem.
- 2) Use Figure One TV display to determine location of faulty RAMs.

SWITCH ADJUSTMENTS

BONUS LASER BASE

BONUS LASER BASE AT 1500 SCORE	SW. 1
BONUS LASER BASE AT 2000 SCORE	OFF

GAME OPTION

COCKTAIL MODEL	SW. 2
UP-RIGHT	ON

COIN OPTION

	SW. 3	SW. 4
1 COIN = 1 PLAYER	ON	ON
2 COINS = 2 PLAYERS	ON	ON
1 COIN = 1 PLAYER	ON	OFF
1 COIN = 2 PLAYERS	ON	OFF
2 COINS = 1 PLAYER	OFF	ON
4 COINS = 2 PLAYERS	OFF	ON
2 COINS = 1 PLAYER	OFF	OFF
2 COINS = 2 PLAYERS	OFF	OFF

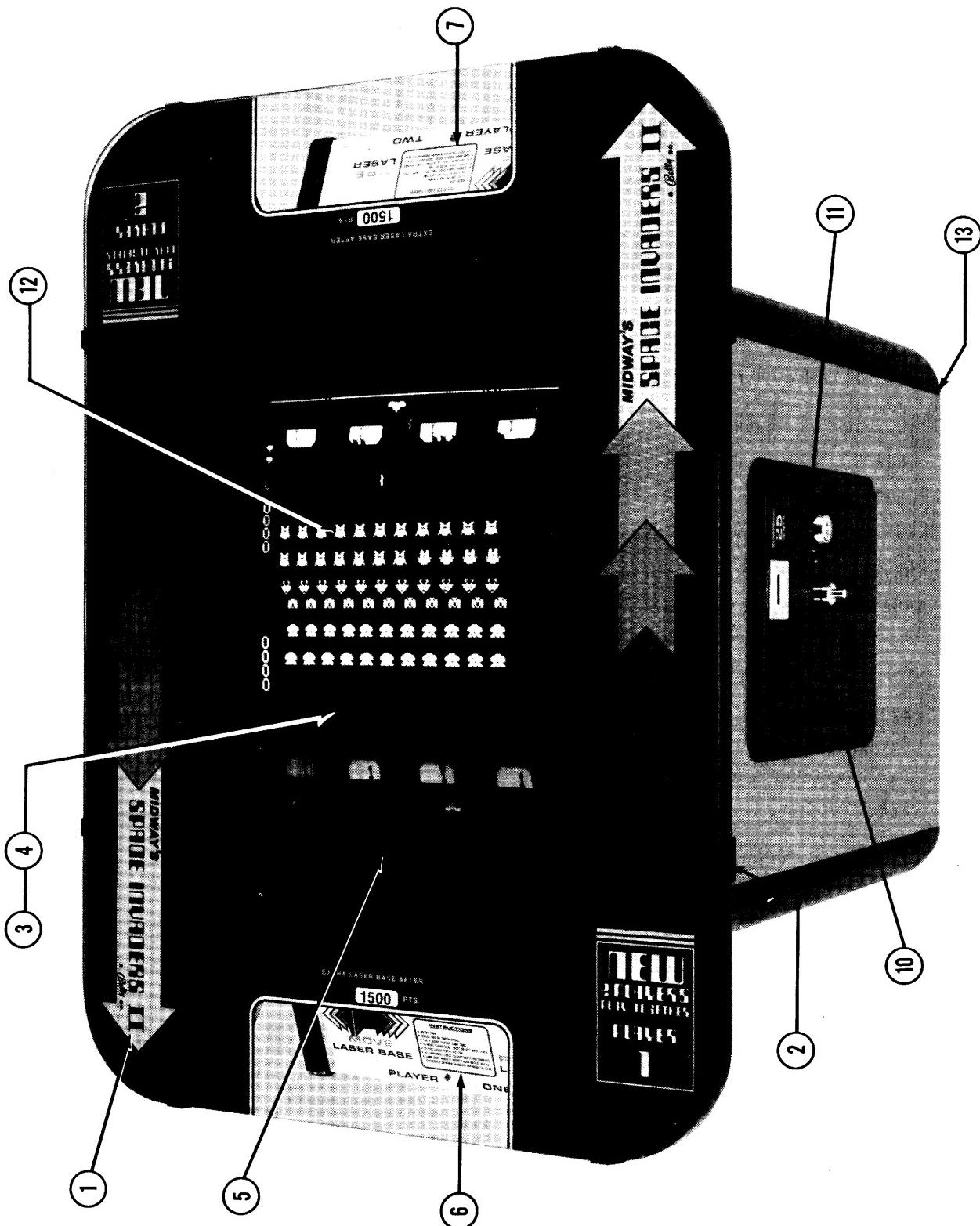
RAM/ROM TEST

GAME MODE	SW. 8
TEST MODE	OFF

NOTE: SWS. 5, 6, & 7 NOT USED.

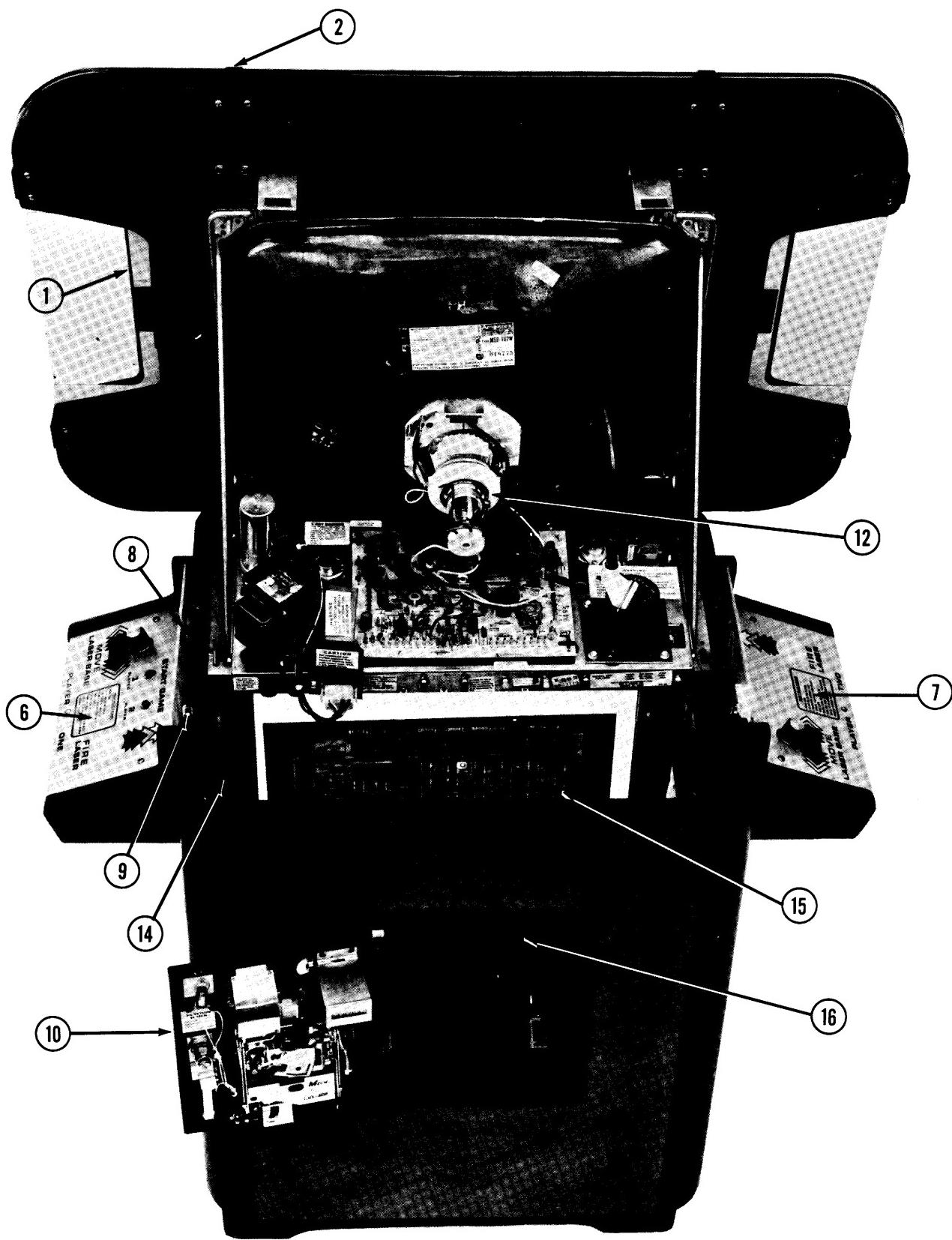
M051-00851-A009

NO. 851 — SPACE INVADER II — COCKTAIL TABLE — PICTURE



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NO. 851 — SPACE INVADER II — COCKTAIL TABLE — PICTURE



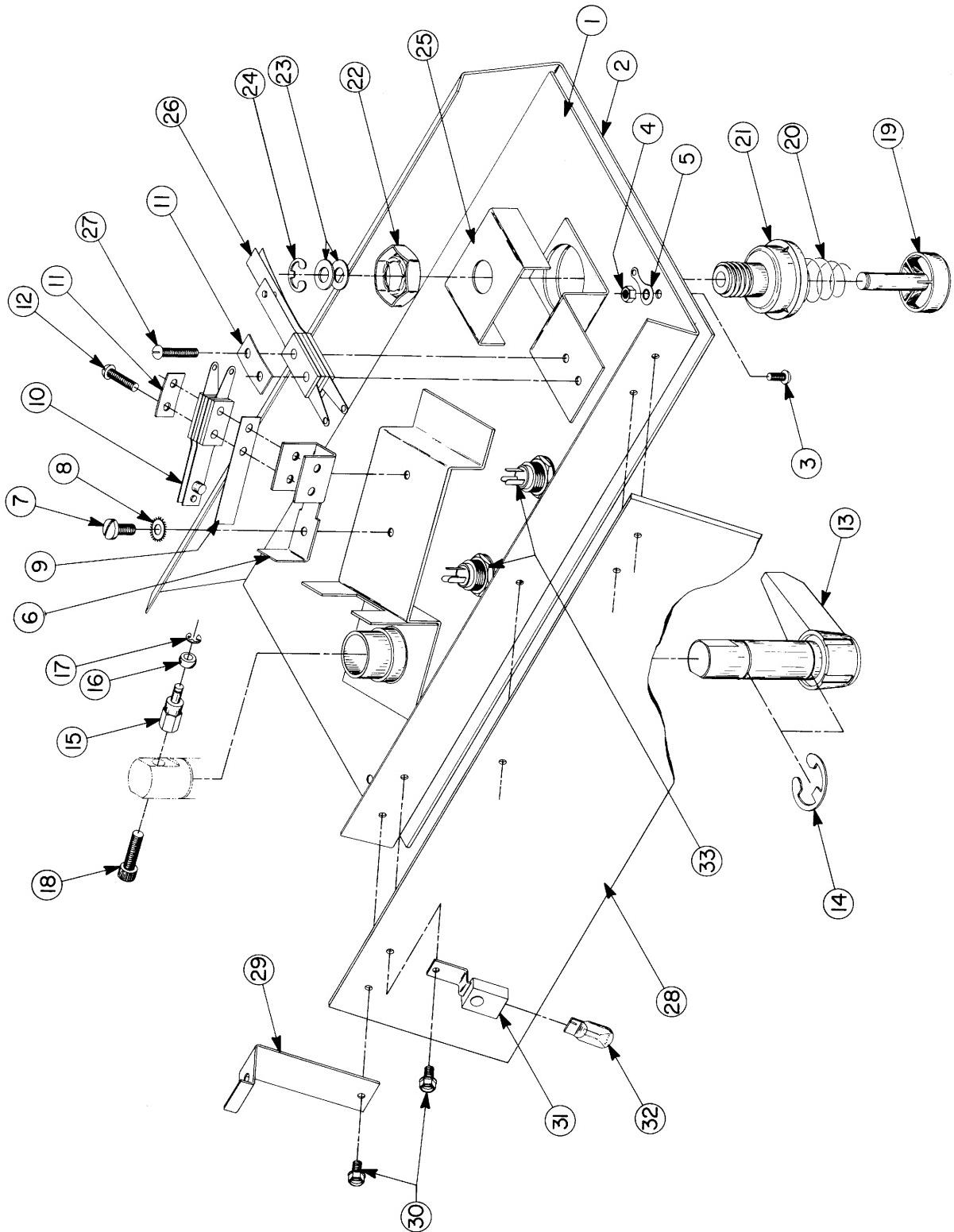
NO. 851 — SPACE INVADER II — COCKTAIL TABLE — PICTURES

ORDER BY PART NUMBER ONLY

ITEM	PART NO	DESCRIPTION
1	0851-00902-00XF	GLASS TOP — 32" x 22" x 1/4"
2	0775-00104-00XF	GLASS CLIPS (8 REQ'D.)
	0017-00101-0742	#8 x 1/2 PHIL. TRUSS HD. S.M.S. (16 REQ'D.)
3	0851-00905-0000	PLEXI SCREEN OVERLAY — GREY — 17-3/8" x 14" x 1/8"
4	0851-00903-0000	BLUE — GREEN SCREEN OVERLAY
5	0749-00901-0000	T.V. BEZEL
6	0851-00900-00XF	MAIN ESCUTCHEON
7	0851-00901-00XF	ESCUTCHEON — R.H. PLAYER 2
	A775-00003-0000	SHELF PLATE ASSY. (2 REQ'D.)
8	0775-00901-0000	LIGHT SHIELD (2 REQ'D.)
	0775-00112-00XF	BRKT. DECAL (2 REQ'D.)
	0775-00100-00XF	SHELF BRKT. (4 REQ'D.)
	0017-00101-0017	#6 x 1/2 HEX HD. WD. W/BLK. S.M.S. (4 REQ'D.)
9	0017-00003-0219	LAMP 14V. (4 REQ'D.)
	0017-00031-0044	LIGHT SOCKET (4 REQ'D.)
	0017-00101-0014	#6 x 1/2 HEX HD. WD. W/S.M.S. (8 REQ'D.)
10	A090-00058-0000	FRONT DOOR ASSY. W/COIN METER
11	0090-00002-01BK	FRONT DOOR FRAME
12	A851-00002-0000	MONITOR AND CHASSIS ASSY.
	0017-00003-0213	19" B & W MONITOR
	0017-00101-0082	#10 x 3/4 HEX HD. S.M.S. (8 REQ'D.)
13	0017-00102-0048	LEG LEVELERS (4 REQ'D.)
	0017-00103-0026	LEG LEVELER NUTS (4 REQ'D.)
14	0749-00105-00XF	PROP (ORANGE SUPPORT BRKT.)
15	A084-90000-L851	MOTHER BOARD ASSY.
16	A084-90700-A851	GAME BOARD ASSY. <u>NOT SHOWN LIST</u>
	0017-00003-0161	SPEAKER ASSEMBLY
	0549-00128-00XF	SPEAKER 4IN, 8 OHM (2 REQ'D.)
	0017-00041-0576	SPEAKER GRILL (2 REQ'D.)
	0547-00035-00XF	SPEAKER GASKET (2 REQ'D.)
	0017-00101-0639	SPEAKER BEZEL (2 REQ'D.)
	0017-00103-0061	#8 - 32 x 1-1/4 CARRIAGE BOLTS (8 REQ'D.)
	0017-00009-0393	#8 - 32 HEX NUT SEMS. (8 REQ'D.)
	0017-00003-0222	VENT GRILL W/4, 1-1/2 SCRS. (2 REQ'D.)
	0775-00110-00XF	<u>FAN ASSEMBLY</u>
	0870-00100-00XF	FAN
	0017-00101-0347	FAN PLATE
	0017-00104-0009	VENT SCREEN
	0017-00103-0005	#6 - 32 x 1/2 PHIL. R.H.M.S. SEMS. (4 REQ'D.)
	0017-00101-0026	#6 EXT. WASHER (4 REQ'D.)
	0017-00009-0439	#6 - 32 HEX NUT (4 REQ'D.)
	0017-00101-0082	#8 x 5/8 SLOT HEX HD. S.M.S. (4 REQ'D.)
		HINGE (TOP ASSY.) (2 REQ'D.)
		#10 x 3/4 HEX HD. S.M.S. (12 REQ'D.)

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NO. 851 - SPACE INVADER II - COCKTAIL - CONTROL SHELF ASSY.



NO. 851 – SPACE INVADER II – COCKTAIL – CONTROL SHELF ASSY.

ORDER BY PART NUMBER ONLY

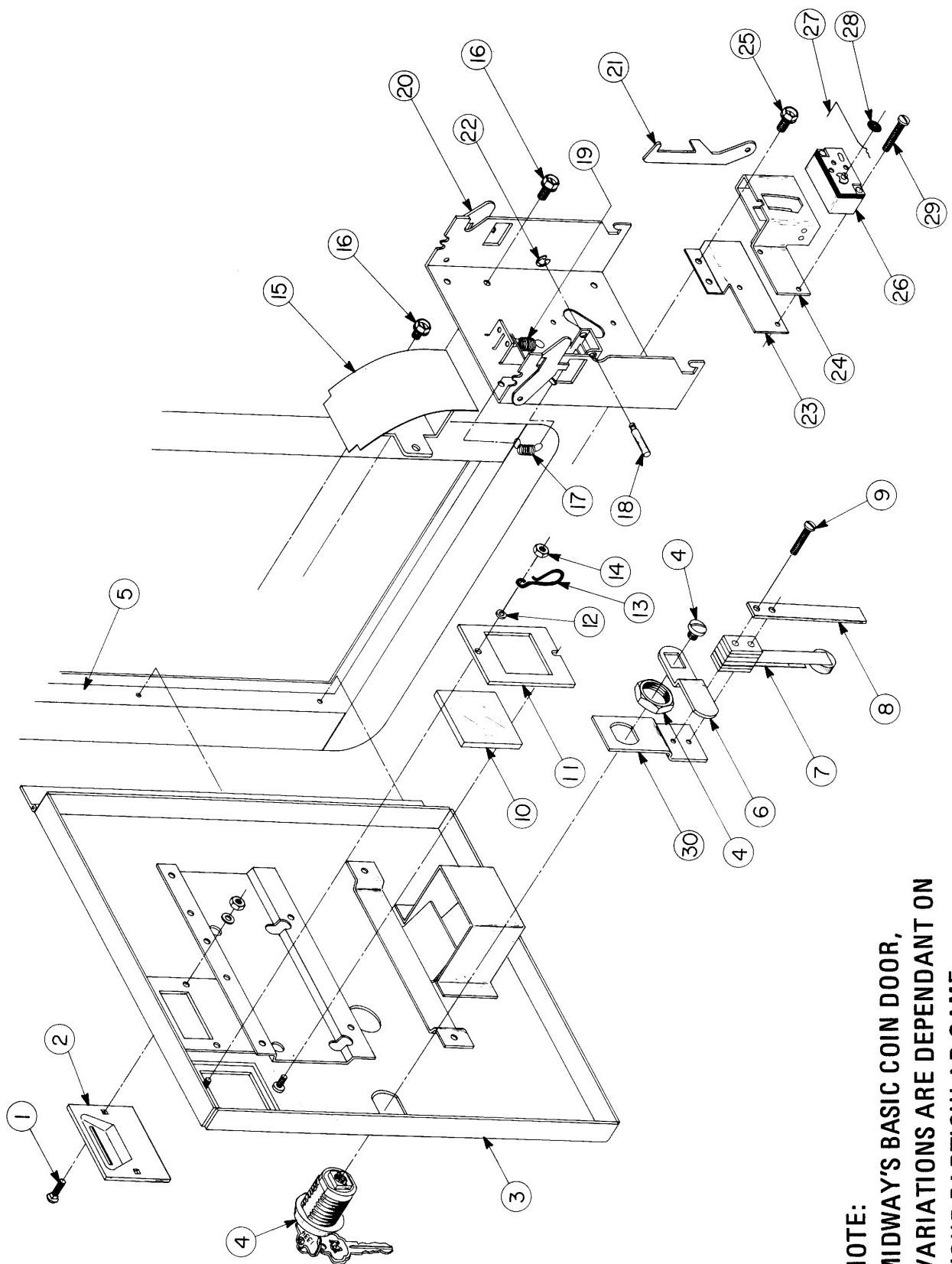
ITEM	PART NO	DESCRIPTION
1	A775-00003-0000	SHELF PLATE ASSY.
2	0851-00900-00XF	ESCUTCHEON – MAIN
2	0851-00901-00XF	ESCUTCHEON – R.H. PLAYER 2
3	0017-00101-0077	#6 - 32 x 5/16 PHIL PAN HD M.S. (2 REQ'D.)
4	0017-00103-0005	#6 - 32 HEX NUT (2 REQ'D.)
5	0017-00021-0002	#6 SOLDER LUG
6	0775-00101-00XF	SWITCH MTG. BRKT.
7	0017-00101-0517	#5 - 40 x 1/4 SOLT PAN HD M.S. (2 REQ'D.)
8	0017-00104-0009	#6 EXT LOCK WASHER (2 REQ'D.)
9	0020-00240-0010	TENSION LEAF .010 (2 REQ'D.)
10	A775-00005-0000	SWITCH ASSY. (2 REQ'D.)
11	0020-00202-0000	SWITCH PLATE (3 REQ'D.)
12	0017-00101-0525	#5 - 40 x 9/16 SLOT RD HD M.S. (4 REQ'D.)
13	A869-00006-0000	KNOB & SHAFT ASSY.
14	0017-00100-0050	1/2 E-RING (2 REQ'D.)
15	0775-00701-00XF	POST
16	0775-00902-0000	ROLLER
17	0017-00100-0015	5/32 E-RING
18	0017-00101-0720	#10 - 32 x 3/4 SOCKET HD CAP SCREW
19	0017-00009-0384	BUTTON
20	0010-00593-0000	SPRING
21	0017-00009-0376	HOUSING
22	0017-00103-0054	PAL NUT 5/8 - 11
23	0017-00104-0028	FLAT WASHER (2 REQ'D.)
24	0017-00100-0025	1/4 E-RING
	A739-00012-0000	PUSH BUTTON ASSY. (ITEMS 19-24)
25	0775-00105-00XF	SPACER
26	0586-00036-0000	PUSH BUTTON SWITCH ASSY.
27	0017-00101-0522	5 - 40 x 7/16 SLOT RD HD M.S. (2 REQ'D.)
28	0775-00901-0000	LIGHT SHIELD
29	0775-00100-00XF	SHELF MTG. BRKT. (2 REQ'D.)
30	0017-00101-0014	#6 x 1/2 SLOT HEX HD M.S. (5 REQ'D.)
31	0017-00031-0044	LAMP SOCKET (2 REQ'D.)
32	0017-00003-0219	LAMP #194 15V .27A WEDGE (2 REQ'D.)
33	0017-00032-0051	BUTTON SWITCH (MAIN CONTROL ONLY) (2 REQ'D.)

NO. 851 - SPACE INVADER II - COCKTAIL TABLE - ADDITIONAL PARTS LIST

ORDER BY PART NUMBER ONLY

ITEM	PART NO	DESCRIPTION
	A097-00001-0000	LOCK ASSY.
	A749-00003-0000	CASH BOX ASSY.
	A627-00052-0000	CASH BOX COVER ASSY.
	A625-00024-0000	CASH BOX GUIDE BRKT. ASSY.
	0625-00117-0000	CASH BOX GUIDE
	0017-00101-0628	#8 - 32 x 3/4 CARRIAGE BOLTS (4 REQ'D.)
	0017-00103-0008	#8 - 32 HEX NUT (4 REQ'D.)
	0017-00009-0033	BASSICK CLAMP (2 REQ'D.)
	0017-00101-0025	#8 x 1/2 HEX HD. S.M.S. (4 REQ'D.)
	0610-00132-0000	STRIKE (2 REQ'D.)
	0017-00101-0028	#8 x 3/4 HEX HD. S.M.S. (4 REQ'D.)
	A749-00005-0000	INTERLOCK SWITCH ASSY.
	0017-00101-0026	#8 x 5/8 HEX HD. S.M.S. (3 REQ'D.)
	A627-00066-0000	ON-OFF SWITCH ASSY.
	0017-00101-0017	#6 x 1/2 HEX HD. S.M.S. (6 REQ'D.)
	A084-90700-A851	GAME BOARD P.C. ASSY.
	A084-90000-L851	MOTHER BOARD P.C. ASSY.
	A082-90400-H000	POWER SUPPLY ASSY.
	A749-00004-0000	TRANSFORMER BOARD ASSY.
	A084-90901-C851	SOUND BOARD P.C. BOARD ASSY.
	0624-00902-0100	P.C. SUPPORT BRKT. - 12" (4 REQ'D.)
	0624-00902-0500	P.C. SUPPORT BRKT. - 6-1/2" (2 REQ'D.)
	0624-00902-0400	P.C. SUPPORT BRKT. - 4" (6 REQ'D.)
	0624-00902-0300	P.C. SUPPORT BRKT. - 2-1/2"
	0597-00012-0100	P.C. SUPPORT BRKT. - R.H.
	0597-00012-0200	P.C. SUPPORT BRKT. - L.H.
	0017-00101-0028	#8 x 3/4 HEX HD. S.M.S. (22 REQ'D.)
	0017-00104-0037	#8 WASHER (22 REQ'D.)
	0017-00009-0419	PIN EXTRACTOR TOOL (PIN POPPER)

NO. 851 – SPACE INVADER II – FRONT DOOR ASSY.



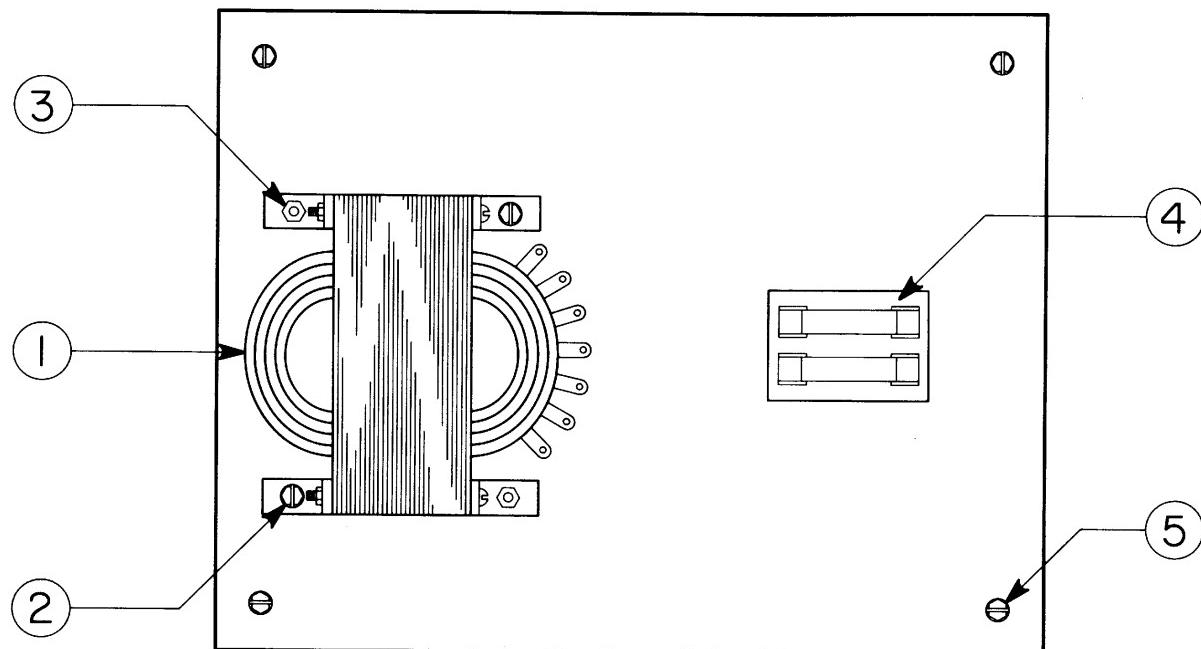
NOTE:
**MIDWAY'S BASIC COIN DOOR,
VARIATIONS ARE DEPENDANT ON
YOUR PARTICULAR GAME.**

NO. 851 – SPACE INVADER II – FRONT DOOR ASSY.

ORDER BY PART NUMBER ONLY

ITEM	PART NO	DESCRIPTION
1	0017-00101-0552	#6 - 32 x 1/4 CARRIAGE BOLT (2 REQ'D.)
2	0090-00117-03XF	COIN ENTRY PLATE (25¢)
3	A090-00058-0000	DOOR ASSY. SINGLE ENTRY
4	0017-00005-0050	DOOR LOCK & KEY WITH SCREW & NUT
5	0090-00002-01BK	SINGLE DOOR FRAME
6	0017-00005-0041	421 N.S. CAM
7	0090-00901-0000	DOOR SWITCH
8	0090-00126-01XF	SWITCH BACKUP PLATE
9	0017-00101-0528	#5 - 40 x 3/4 LONG M.S. (2 REQ'D.)
10	0090-00903-0040	25¢ WINDOW
11	0090-00143-0000	COIN PLEX RETAINER
12	0017-00104-0002	SPLIT LOCK WASHER (2 REQ'D.)
13	0017-00007-0019	KEY HOOK
14	0017-00103-0005	#6 - 32 HEX NUT (2 REQ'D.)
15	0090-00104-0000	TOP & BOTTOM COIN CHUTE W/BRKT. ASSY.
16	0017-00101-0598	#8 - 32 x 5/16 SCREW (4 REQ'D.)
17	0010-00181-0100	SPRING
18	0090-00129-00XF	PIVOT POST
19	0010-00134-0000	SPRING
20	0090-00008-0000	ACCEPTOR FRAME ASSY.
21	0093-00155-00XF	REJECTOR LEVER
22	0017-00100-0012	E-RING
23	0093-00151-00XF	COIN GUIDE MTG. BRKT.
24	0090-00005-0000	COIN GUIDE ASSY.
25	0017-00101-0555	#6 - 32 x 5/16 SCREW (2 REQ'D.)
26	0017-00005-0039	COIN SWITCH
27	0010-00557-2500	TRIP WIRE
28	0017-00007-0132	PUSH-ON RING (BLK)
29	0017-00101-0507	#4 - 36 x 3/4 SCREW (2 REQ'D.)
30	0090-00128-00XF	SWITCH BRKT. - DOOR TILT
	A090-00061-0000	ANTI-STRING DEVICE ASSY. – OPTIONAL (REPLACES ITEM 24)
	A090-00064-0000	ANTI-PENNY DEVICE ASSY. – OPTIONAL

NO. 851 – SPACE INVADER II – TRANSFORMER BOARD ASSY.



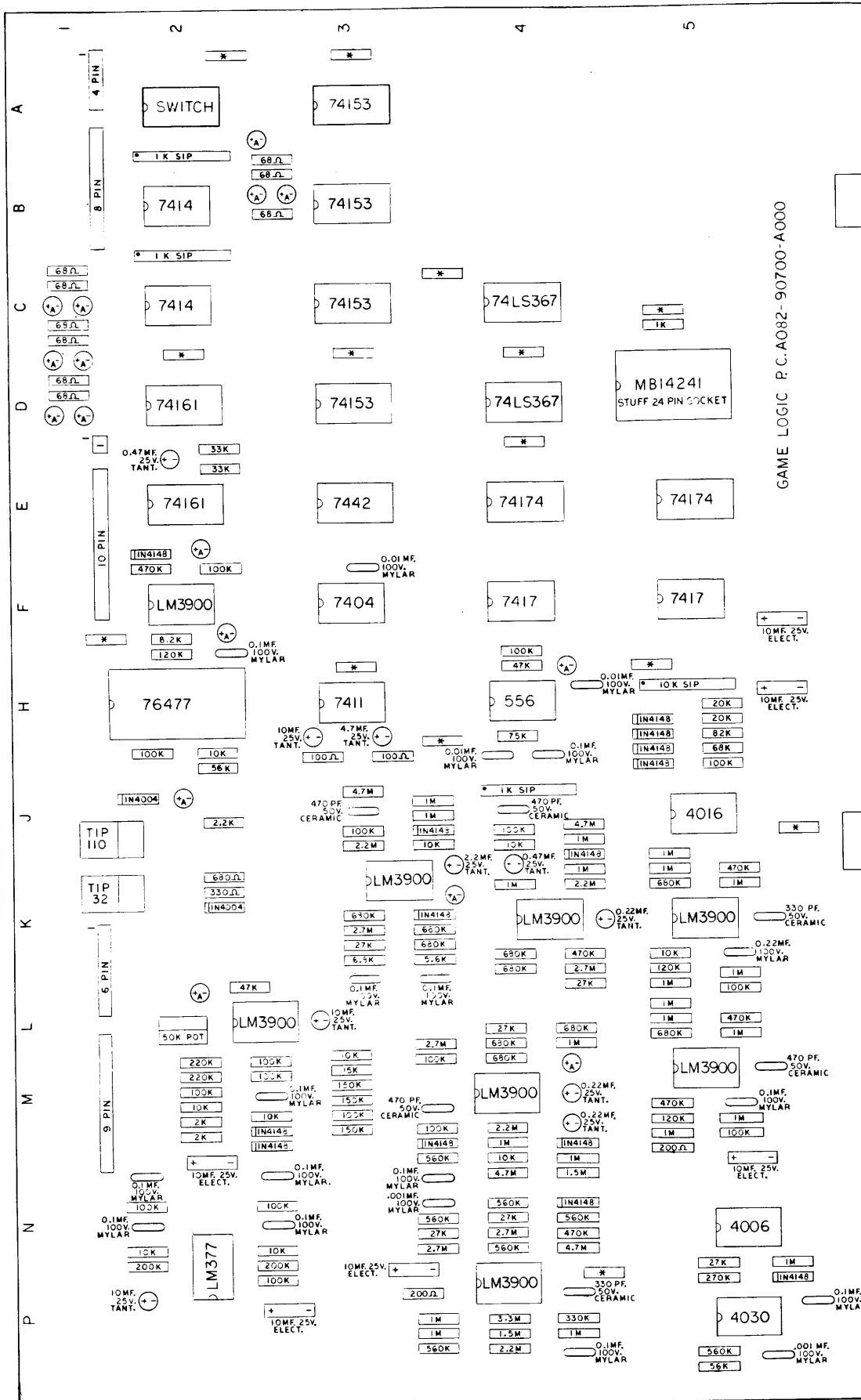
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NO. 851 – SPACE INVADER II – TRANSFORMER BOARD ASSY.

ORDER BY PART NUMBER ONLY

ITEM	PART NO	DESCRIPTION
1	MT00-00058-0000 MT00-00059-0000	TRANSFORMER – 60 CYCLE – DOMESTIC (OR) TRANSFORMER – 50 CYCLE – FOREIGN
2	0017-00101-0017	#6 x 1/2 SLT. HEX HD. WD. SCR. (2 REQ'D.)
3	0017-00101-0637 0017-00103-0008	#8 - 32 x 1" CARRIAGE BOLT (2 REQ'D.) WITH #8 - 32 HEX NUT (2 REQ'D.)
4	0720-00001-0200 0017-00003-0103 0017-00003-0006	2 POSITION FUSE BLOCK FUSE 1 AMP FUSE 3 AMP
5	0017-00101-0018 0017-00003-0064	#6 x 3/4 SLT. HEX HD. SCREW (5 REQ'D.) 16 FT. LINE CORD – NOT SHOWN

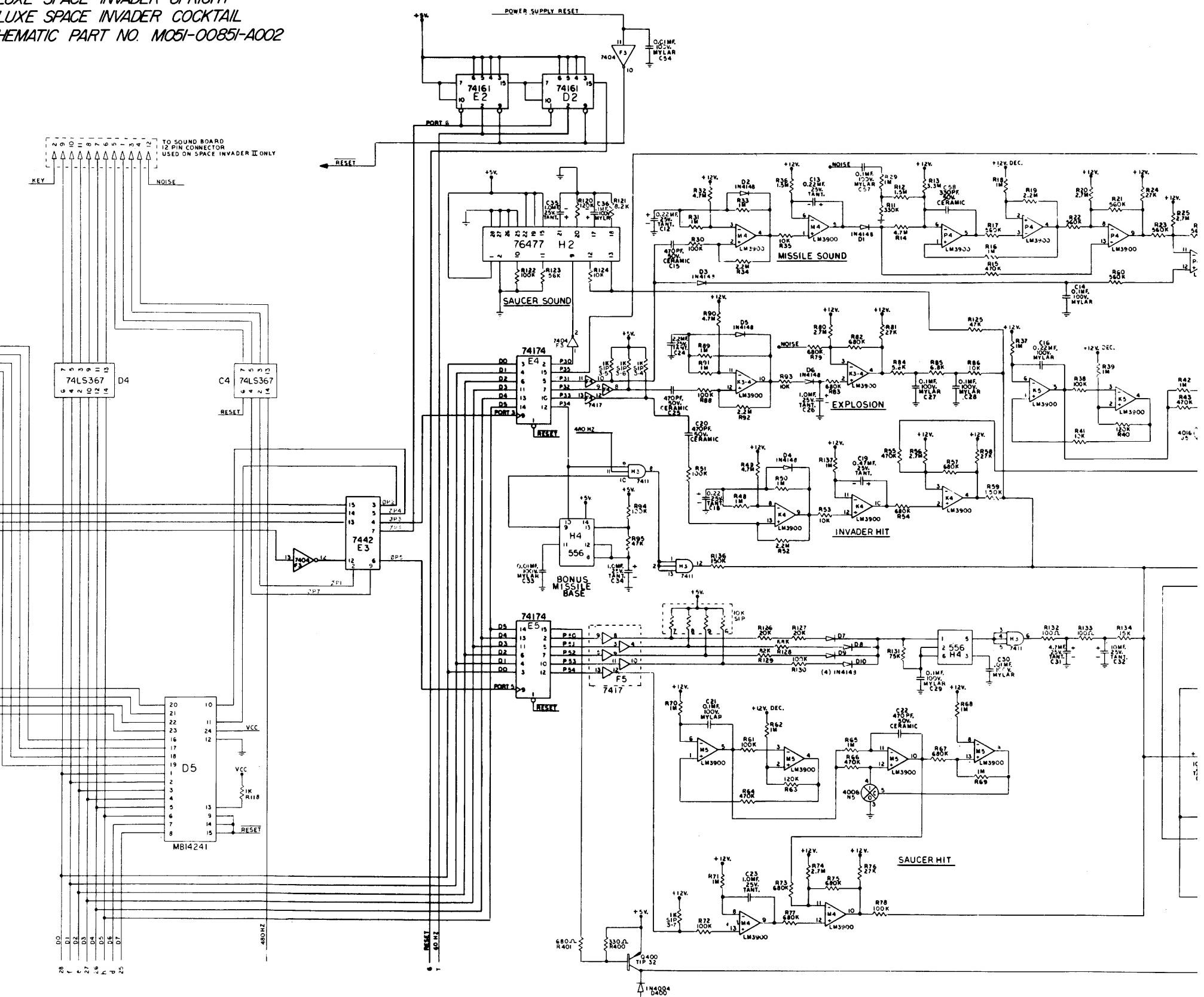
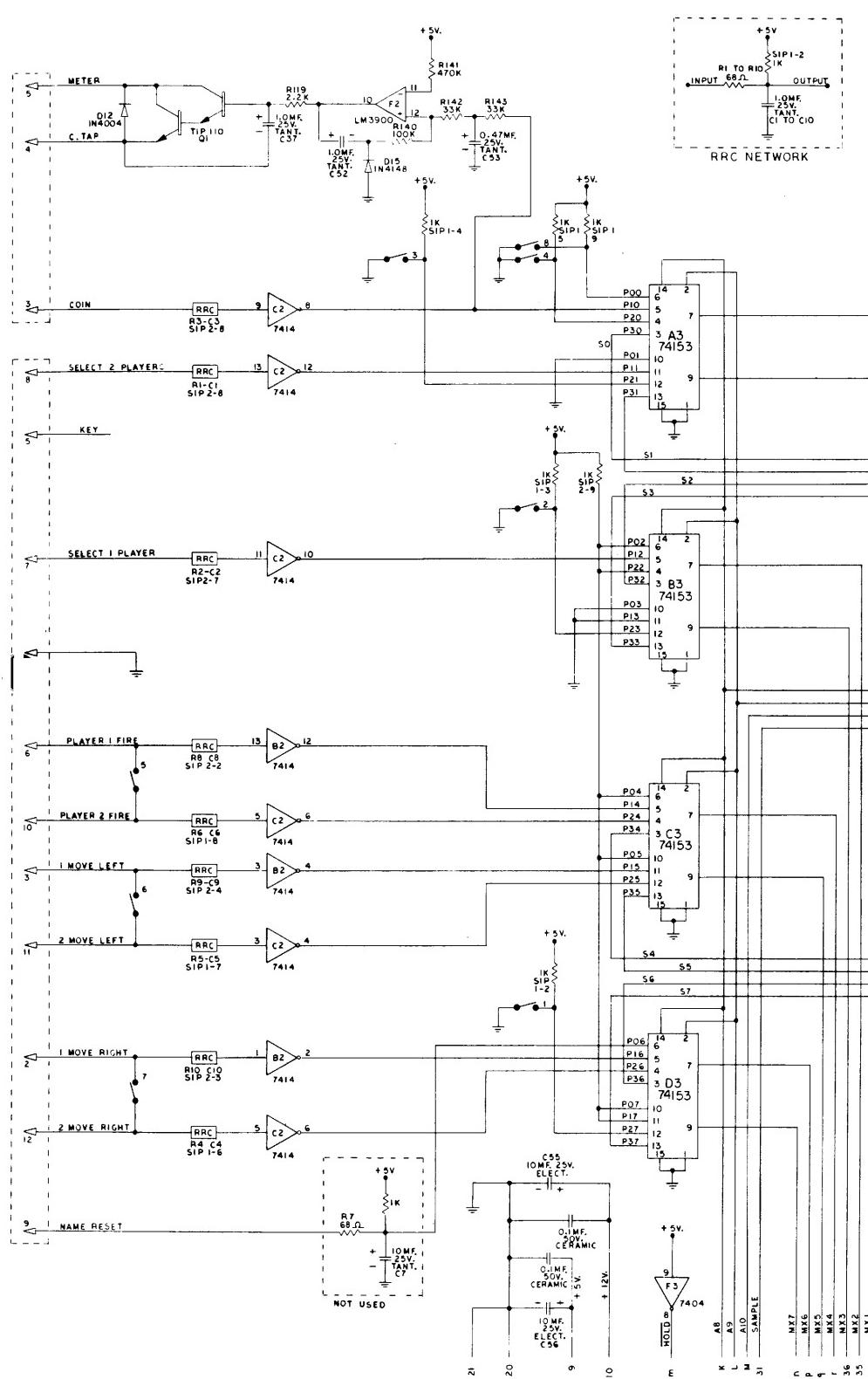
COMPONENT LAYOUT PART NO. M051-00851-A003



* INDICATES O.I.M.F. 50V. AXIAL LEAD CERAMIC CAP
 A " I.O.M.F. 25V. TANT CAR.
 P.C. A082-90700-A000 USED ON: SPACE INVADER UPRIGHT
 COCKTAIL SPACE INVADER UPRIGHT
 DELUXE SPACE INVADER COCKTAIL

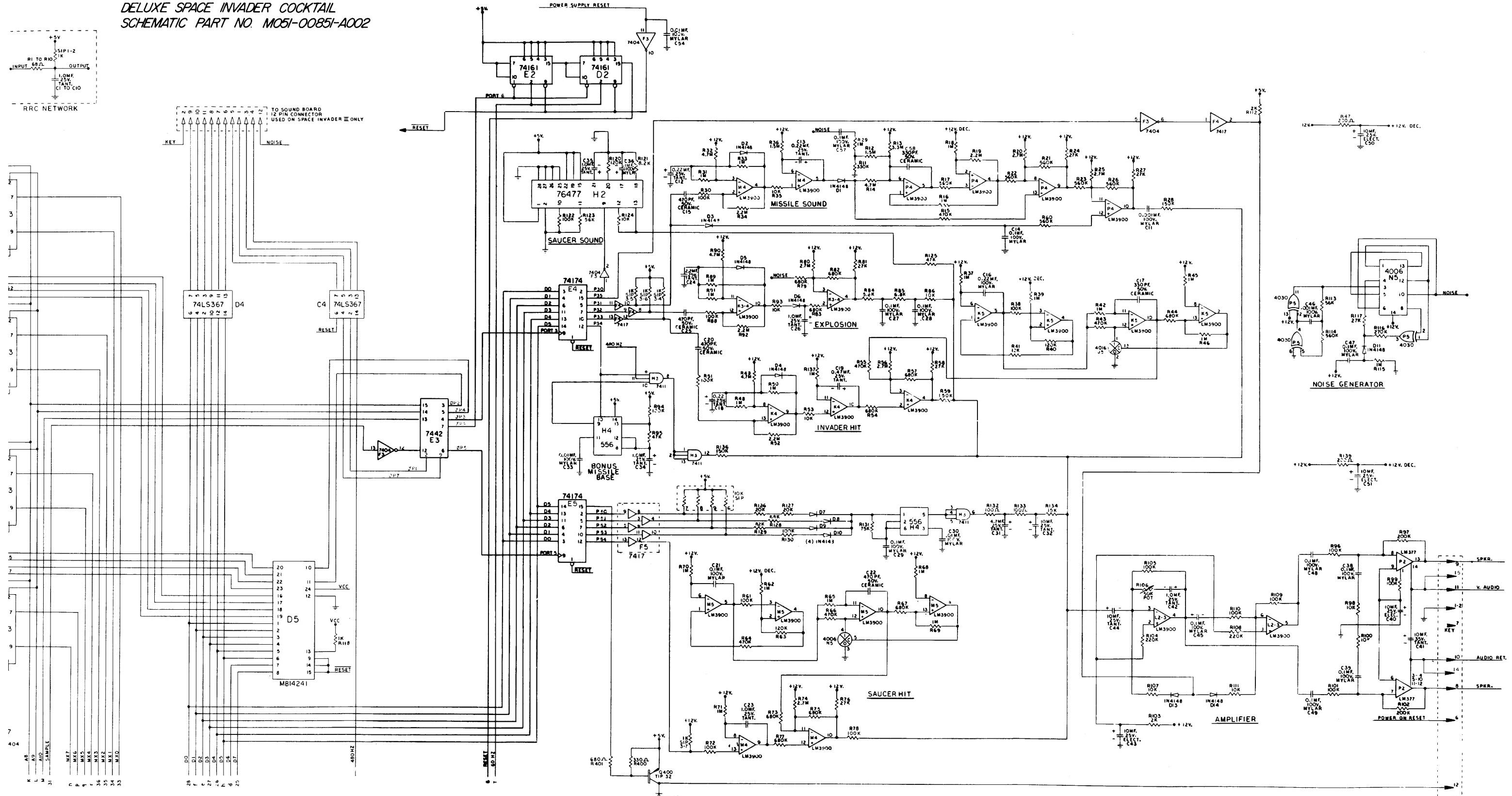
GAME LOGIC P.C.A082-90700-A000

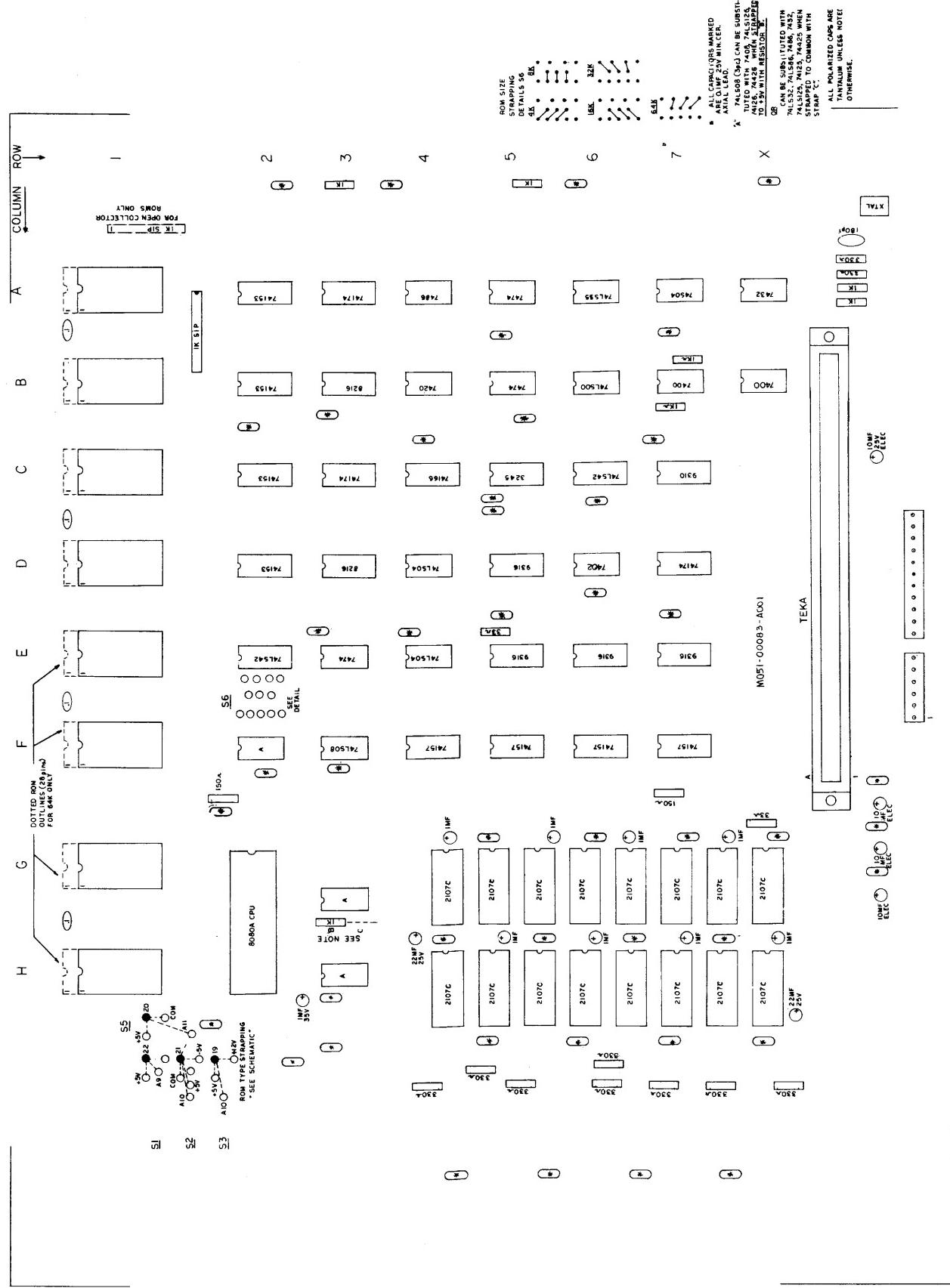
GAME LOGIC P.C. A082-90700-A000
USED ON: SPACE INVADER II COCKTAIL
DELUXE SPACE INVADER UPRIGHT
DELUXE SPACE INVADER COCKTAIL
SCHEMATIC PART NO. M051-00851-A00



GAME LOGIC P.C. A082-90700-A000

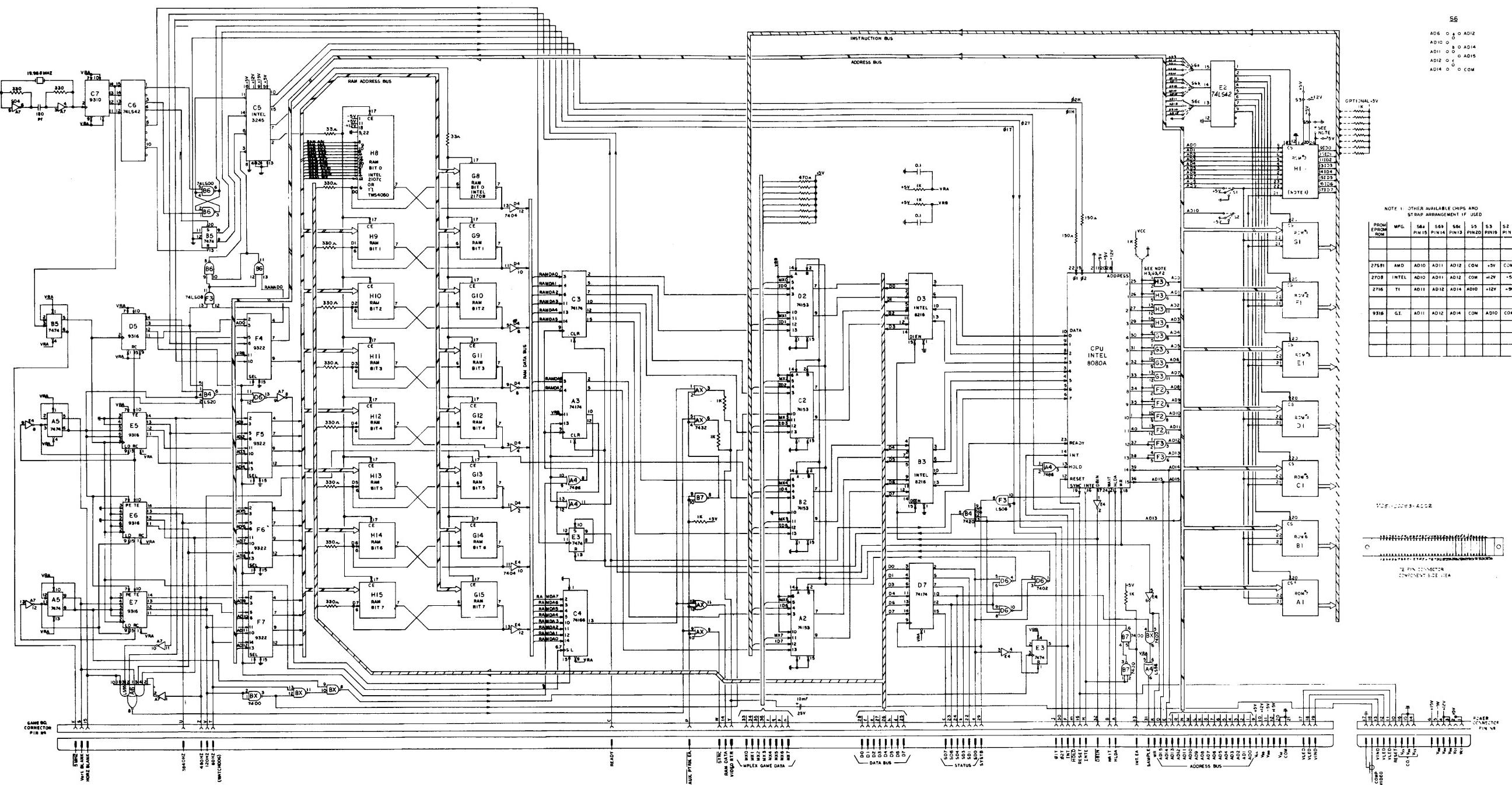
USED ON: SPACE INVADER II COCKTAIL
DELUXE SPACE INVADER UPRIGHT
DELUXE SPACE INVADER COCKTAIL
SCHEMATIC PART NO. M05I-0085I-A002



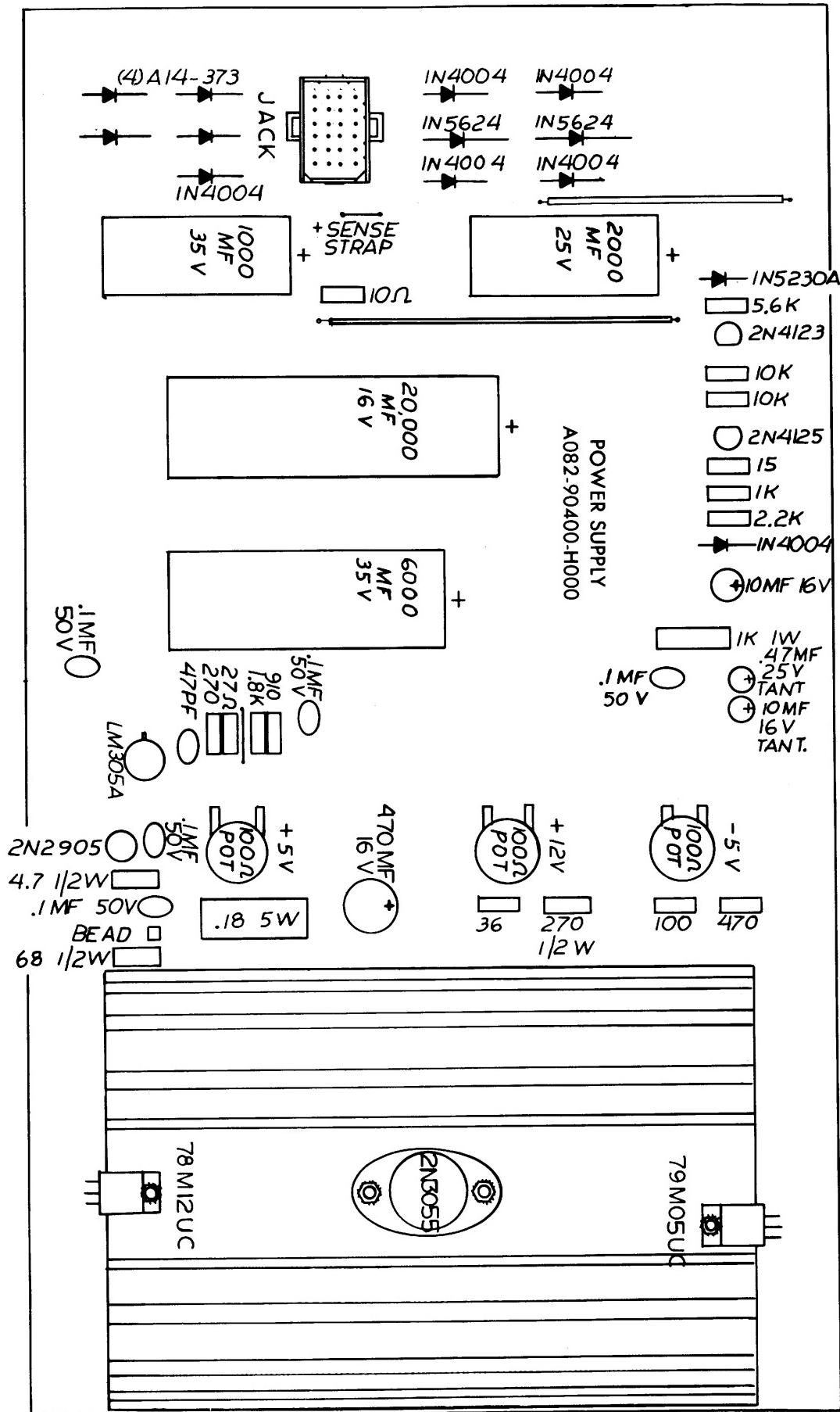


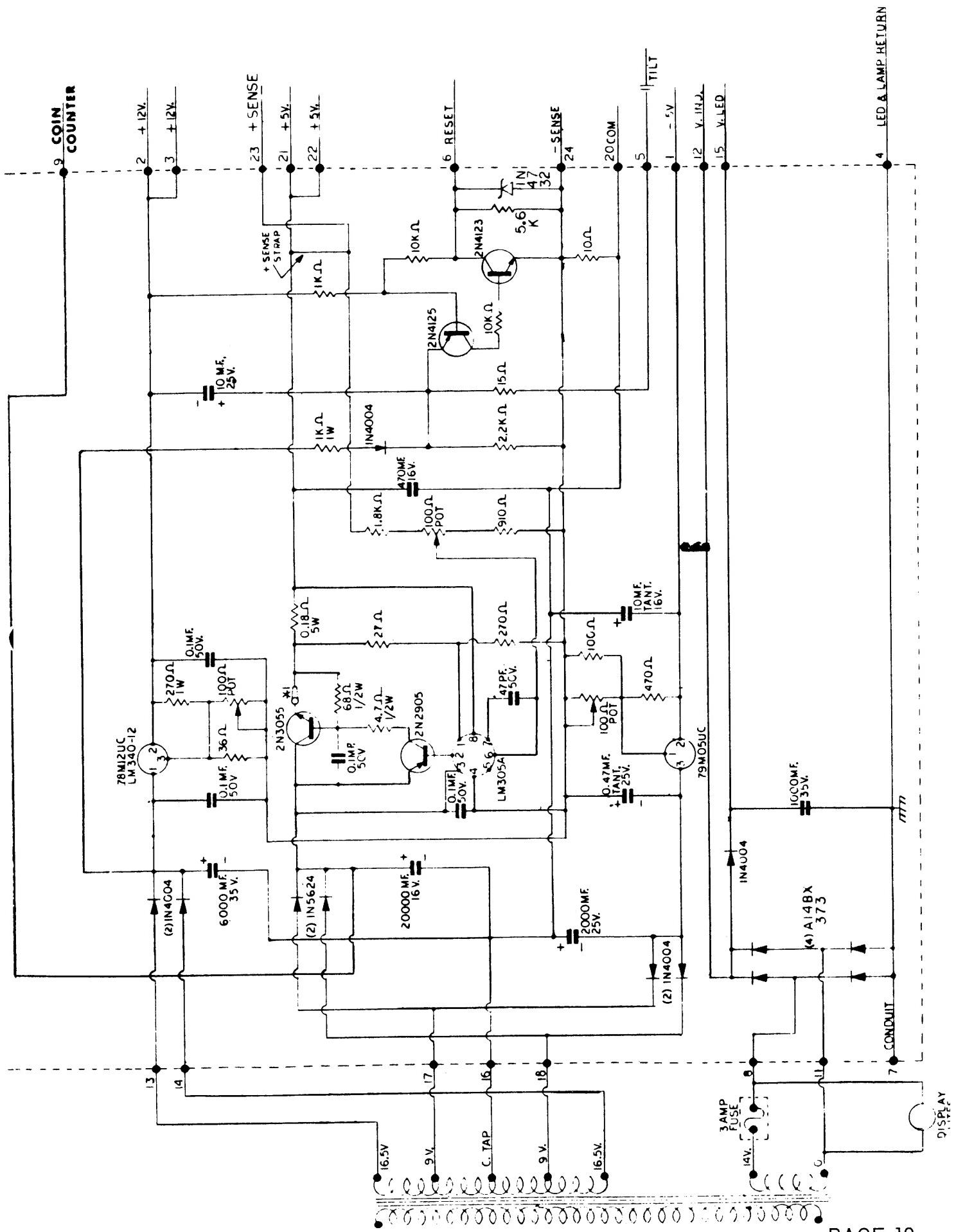
MOTHER BOARD COMPONENTS LAYOUT

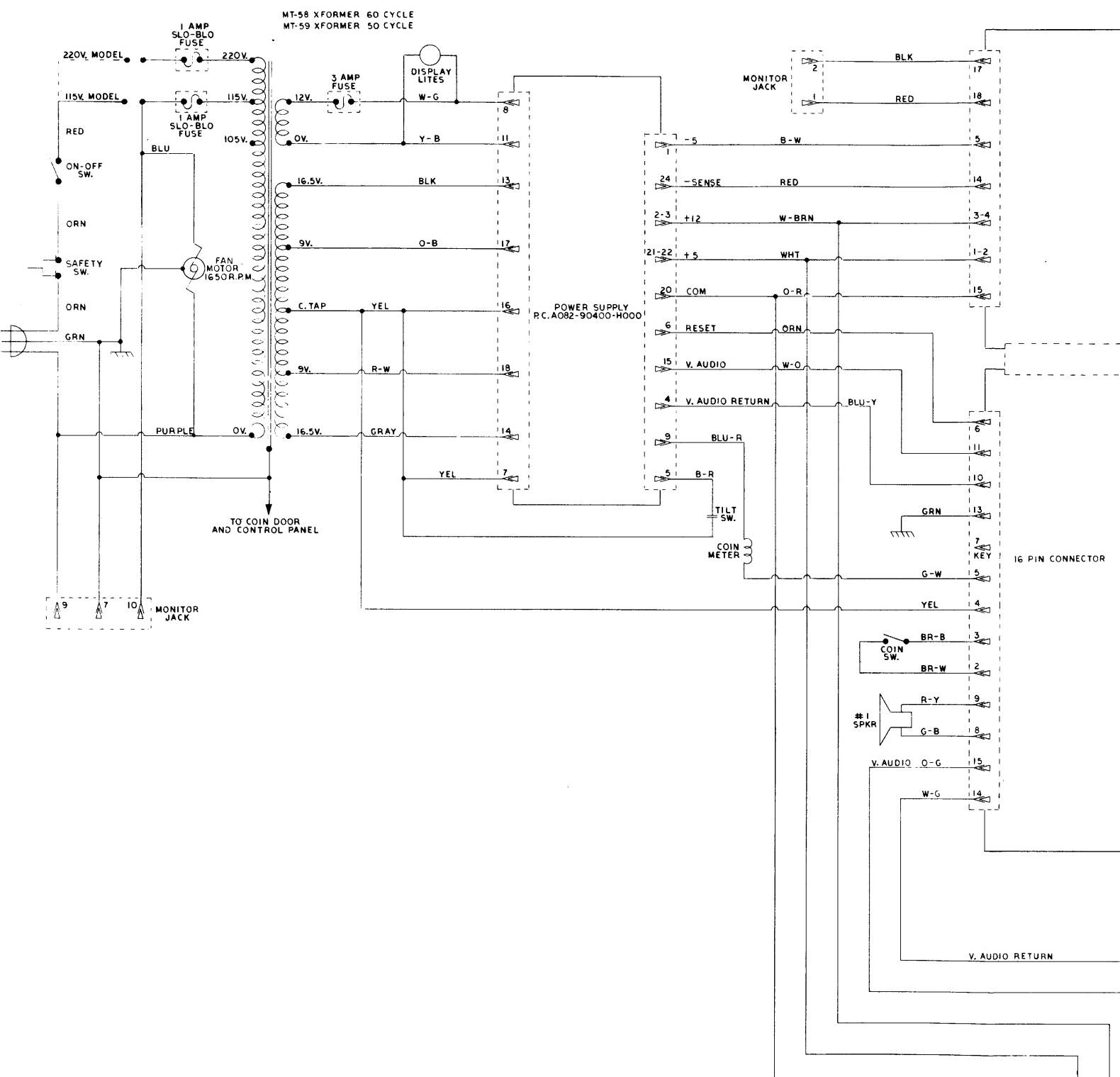
A084-90000-L851



**MOTHER BOARD SCHEMATIC
A084-90000-L851**







"SPACE INVADER II COCKTAIL TABLE"

MIDWAY MFG. CO.
10750 W. GRAND AVE.
FRANKLIN PARK, IL. 60131

MOTHER BOARD P.C.A082-9000-L000

WIRING SCHEMATIC PART NO. M051-00851-A008

GAME LOGIC BOARD P.C.A084-90700-A851

20 PIN CONNECTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
B-R	BRN	G-R	O-B	Y-B	BLU-B														
Y-G	R-BLU	R-W	B-W	BLU-R															
W-B																			

12 PIN CONNECTOR

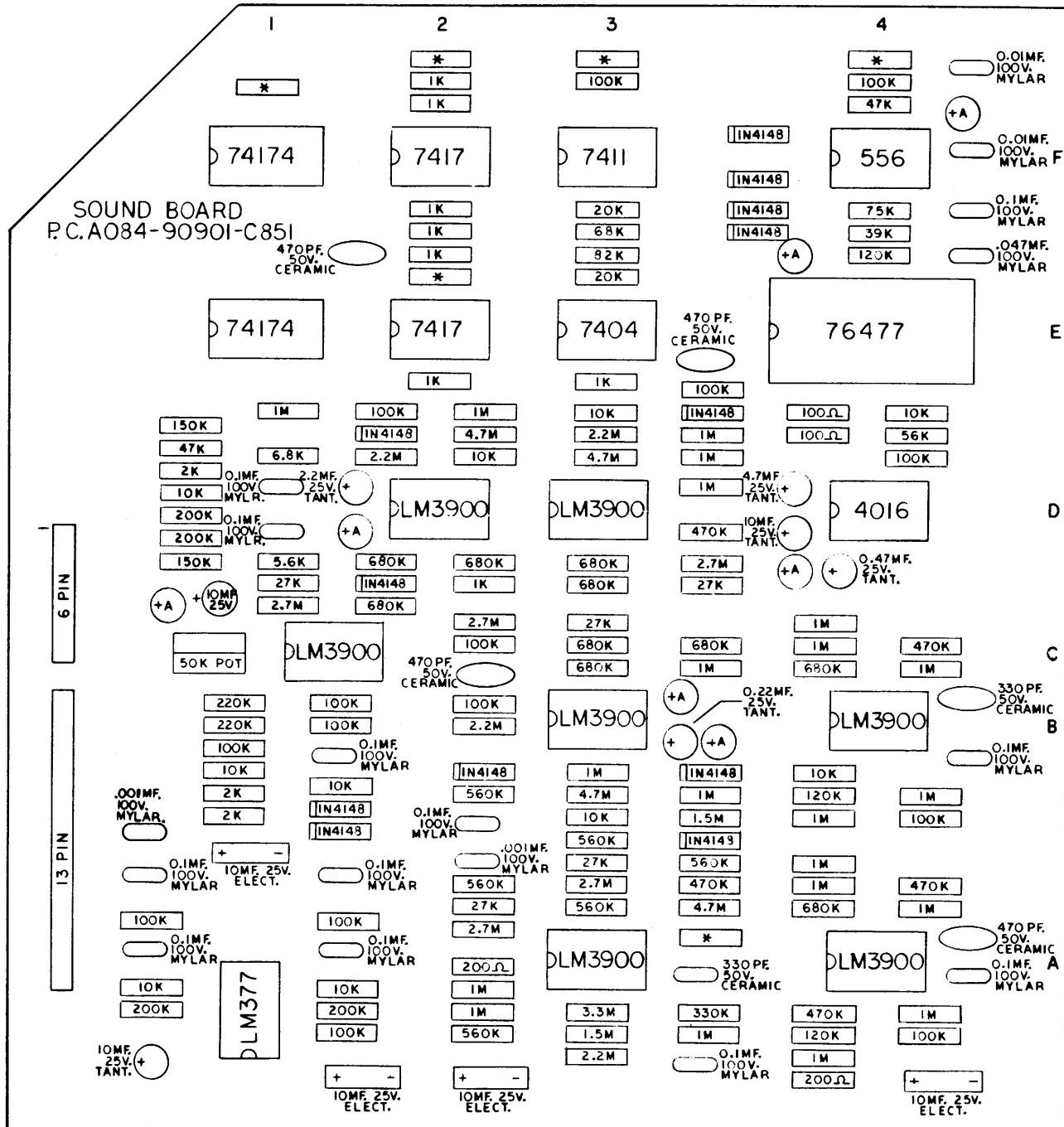
1	2	3	4	5	6	7	8	9	10	11	12	KEY
B-R	BRN	G-R	O-B	Y-B	BLU-B							
Y-G	R-BLU	R-W	B-W	BLU-R								
W-B												

13 PIN CONNECTOR

1	2	3	4	5	6	7	8	9	10	11	12	13	KEY
R-G	B-G	W-R	G-Y										
Y-R	BR-Y	R-B	O-W	#1 MOVE LEFT	#1 FIRE	#2 MOVE RIGHT	SELECT ONE PLAYER						
PINK				#1 MOVE RIGHT	#2 MOVE LEFT	#2 FIRE	SELECT TWO PLAYERS						

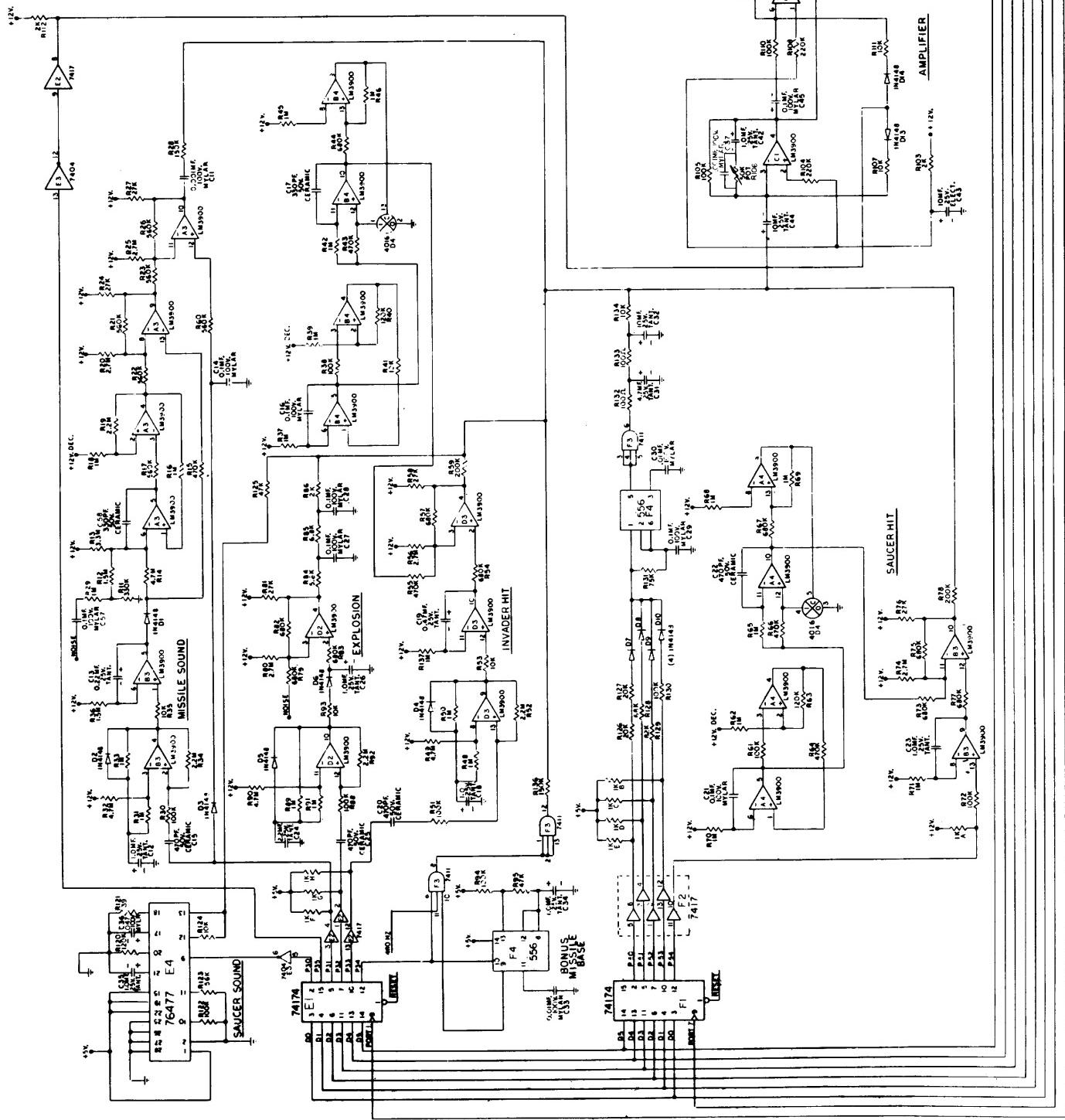
SOUND BOARD P.C.A084-90901-A851

COMPONENT LAYOUT PART NO. M05I-0085I-A006

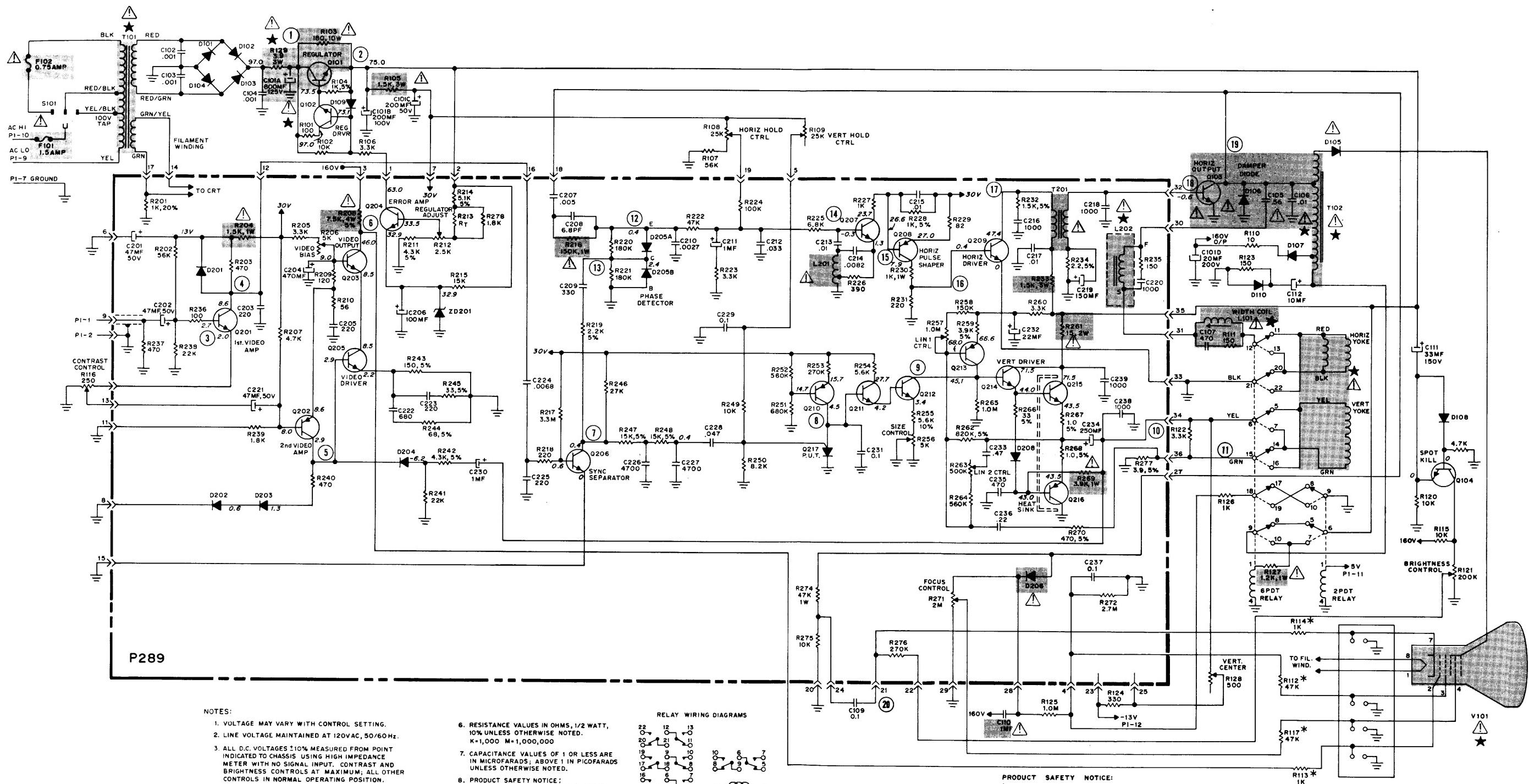


* INDICATES 0.1MF. 50V. AXIAL LEAD CAP.
A INDICATES 1.0MF. 25V. TANT. CAP.

MIDWAY MFG. CO.
10730 W. GRAND AVE.
FRANKLIN PARK, IL. 60134
SOUND BOARD
P.C. NO. 84-9090-C85
SCHEMATIC PART NO.
MO51-00851-A005



SCHEMATIC DIAGRAM



V1002-5770

SUPPLEMENTARY PARTS LIST FOR V1002 TO USE WITH V1001 MANUAL

THESE SYMBOLS AND PARTS TO BE USED WITH V1002 SCHEMATIC

CHANGES AND ADDITIONS

CIRCUIT SYMBOL	PART NUMBER	DESCRIPTION
P289	38A5470-000	P.C. Board Assy.
C208	80X0099-069	Cap. 6.8PF Plus/Minus 0.5-N.P.O.
C112	45X0515-025	Electrolytic 10MF-100V
D110	66X0023-009	Rectifier-Silicon 500V-1N444B
R123	340X3151-941	Resistor-150 OHM 10% .5W
R124	340X3331-941	Resistor-330 OHM 10% .5W
R125	340X3105-941	Resistor-1MEG 10% .5W
R126	340X3102-941	Resistor 1K OHM 10% .5W
△ R127	340X4122-841	Resistor 1.2K 10% 1.Watt
R128	40X0585-095	Vert. Centering Control 500 OHM
△★ R129	43X0401-049	Resistor 3.9 OHM 3.W 10%
	38A5473-000	Relay Assy. 2PDT (with wires)
	38A5474-000	Relay Assy. 6PDT (with wires)
	02A0678-001	Relay 2PDT (no wires)
	02A0679-001	Relay 6PDT (no wires)

★ X-RAY RELATED PARTS

⚠ SAFETY RELATED PARTS

